

REFRIGERATION TRAINER SYSTEM

Model Number : GOTT-RLT-0106



DESCRIPTION

Refrigeration Trainer System GOTT-RLT-0106 has been designed to help students to study the performance of a vapour compression cycle under various conditions of evaporator load and condenser pressure. Student will be able to monitor and control the unit just as if they are controlling and monitoring an industrial refrigeration and air conditioning plant. The unit is a floor standing unit consists of the following main components: a refrigerant compressor, water cooled refrigerant condenser, an expansion valve with thermostat and an electrical variable load evaporator.

FEATURES

This trainer is designed for an easy use in different environment & is provided with:

- Industrial components & instruments, which are properly connected & operating, easily accessible & visible
- Multiple-speed fan, to send the cold air to the room through refrigeration openings
- Complete set of instruments for troubleshooting & data collection operations
- Safety devices: Fault current circuit breaker and standard plant protections

TECHNICAL SPECIFICATIONS

- System board Diagram
- Evaporator
- Condenser
- Single Phase AC Power Supply
- Refrigerant receiver
- Compressor
- Refrigerant accumulator
- Filter
- High Pressure switch
- Low Pressure Switch
- Hand valve
- Compressor Output pressure
- Compressor Input pressure
- Sight Glass
- Gas inlet tubing
- Compressor Unit Power Control
- Condenser Unit Power Control
- Evaporator Unit Power Control
- Main Input Voltage 220-240VAC
- Temperature Meter
- Thermal Expansion Valve
- AC Volt & Current Meter
- Thermal Expansion Valve Control
- Solenoid Input Voltage Control

EXPERIMENT TOPICS

- Refrigeration circulation system with thermal expansion control valve
- Thermal Expansion Control Valve Fault Simulation
- Drawing Mollier chart
- Calculating system performance
- Energy Cooling Experiments
- Coefficient of performance (COP) and energy efficiency ratio (EER)
- How to Fill in R134a Refrigerant gas

Manuals :

- (1) All manuals are written in English.
- (2) Model Answer
- (3) Teaching Manuals

General Terms :

- (1) Accessories will be provided where applicable.
- (2) Manual & Training will be provided where applicable.
- (3) Design & specifications are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

Warranty :

2 Years

ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
REFRIGERATION TRAINER SYSTEM	GOTT-RLT-0106	955-106

*Proposed design only, subject to changes without any notice.